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International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this content below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this application.	
 A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reaso 	n(s) why the oath or decl	aration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be sub		
(a) ☐ including changes required by the Notice of Draftsperson's Par	tent Drawing Review(PT	TO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 		
(b) ☐ including changes required by the attached Examiner's Amend Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sleach sheet. Replacement sheet(s) should be labeled as such in the heade	nould be written on the dra er according to 37 CFR 1.1	awings in the front (not the back) of 21(d).
 DEPOSIT OF and/or INFORMATION about the deposit of Bl attached Examiner's comment regarding REQUIREMENT FOR TH 	OLOGICAL MATERIA LE DEPOSIT OF BIOLOG	L must be submitted. Note the GICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	·-·	al Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's Ame	ndment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's State9. □ Other	ement of Reasons for Allowance

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Art Unit: 2814

DETAILED ACTION

Election/Restrictions

Claims 3-4, 6-13, 15-16, and 18-19 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 3-4, 6-13, 15-16, and 18-19, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, these claims are amended to change the dependency and hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 9/13/05 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claims including all the limitations of an allowable product claim or rejoined process claim are presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

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Art Unit: 2814

The prior art of record does not disclose or suggest either in singularly or in combination the following limitations and other elements in the claims. References Tsuji (US 6,350,998) and Tanaka et al. (US 6,635,908) do not disclose:

- A single or multiple layers of InGaAs with different compositions of In, Ga, and As without containing of Al for absorption layer.
- A highly doped-thick layer of InGaAs for second ohmic contact, where a window
 is created for incident light to reach the thin layers and where window is a u-shape
 or horse-shoe shape.

Therefore, the above references do not disclose the claimed invention of present application and claims 1-21 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wsl

May 31, 2006

LONG PHAM
PRIMARY EXAMINER